

Abstract

An electro-hydraulic assembly for use in underground mining is disclosed. The assembly includes a hydraulic component, such as a valve block for an underground self-advancing roof support, as well as actuators and/or sensors which have a housing and can be connected or are connected via a data-transmission system to a control unit. A function (e.g. withdrawing the support, setting, advancing, or the like) can be activated at the hydraulic component by each actuator, and/or a hydraulic state associated with a measuring point of the hydraulic component or another measured variable associated with the self-advancing roof support can be measured by each sensor. A reader unit is associated with each actuator and/or sensor in its respective housing, and an information element or transponder is associated with the hydraulic component for each function, each control valve, or each measuring point. The information in the information element or transponder is readable by the reader unit and transmittable to the control unit. All the control valves and sensors are coded for the control unit and the control unit can associate each actuator with its corresponding control valve. In this way, it can be known which actuator is associated with which function of the hydraulic component and connection faults can be avoided.

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